Table 3: Hip Prosthesis (Replacement) Surgical Site Infection (SSI) Standardized Infection Ratio (SIR) Tables January 1, 2008 – November 30, 2008

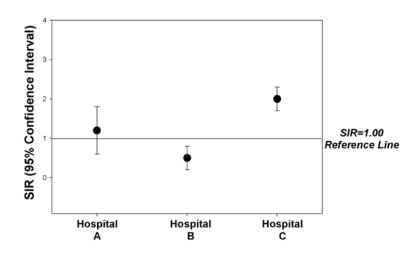
See <u>Definition of Terms</u> at the <u>Healthcare Acquired Infections Report</u> website for a more indepth explanation of Standardized Infection Ratios.

Standardized Infection Ratio: The Standardized Infection Ratio (SIR) is a summary measure used to compare the surgical site infection (SSI) experience among a group of reported procedures to that of a standard population. It is the *observed* number of infections divided by the *expected* number of infections.

For HAI reports, the standard population comes from NHSN data reported from all hospitals using the system. "Expected" *is based on historical data for those procedures at the national level.

Confidence Intervals (CIs)

Because we can never obtain a hospital's true "population" data (e.g. all patients for all time), we use statistical procedures to "estimate" various measurements using "sample" data. Since estimates have "variability" we use 95% confidence limits (or intervals) to describe the variability around the estimate. The confidence interval (CI) gives us the range within which the TRUE value will fall 95% of the time, assuming that the sample data are reflective of the true population. Below is a graphical example of what CIs would look like if they were in graph form.



Graph Interpretation:

Hospital A: If the 95% confidence interval <u>crosses over the reference line of 1.0</u>, we conclude that the hospital's infection rate is similar (not significantly different) from "expected" (predicted).

Hospital B: If the 95% confidence interval <u>falls completely below the reference line of 1.0</u>, we conclude that the hospital's infection rate is significantly lower than "expected" (predicted).

Hospital C: If the 95% confidence interval <u>falls completely above the reference line of 1.0</u>, we conclude that the hospital's infection rate is significantly higher than "expected" (predicted).

All conclusions are based on the assumption that the hospital's patient population is similar to the NHSN pooled patient population.

*Please note that the "expected" number of infections does not mean that you expect to get an infection when you go into the hospital for surgery. The goal is for the hospital is to prevent all HAIs.

Surgical Site Infection (SSI) – Standardized Infection Ratio (SIR) Table 3

Procedure: Hip Prosthesis (Replacement)

Upstate (Abbeville, Anderson, Cherokee, Edgefield, Greenville, Greenwood, McCormick, Oconee, Pickens, Saluda, Spartanburg, Union)

Reporting Period: January 1, 2008 – November 30, 2008

Hospital	Observed No. Of	No. of Procedures*	Statistically "Expected"	Comparison to Standard Population SIR = 1 ("Observed = Expected")				
	SSI		No. of SSI [‡]	Hospital SIR = Observed "Expected"	95% Confidence Interval (CI)		Statistical Interpretation [†]	
					Lower	Upper		
Abbeville								
Area								
Medical								
Center	1	15	0.2	5.35	0.13 -	29.81	Not Different	
AnMed								
Health								
Medical								
Center	0	137	2.0	0.00	0.00 -	1.81	Not Different	
Cannon								
Memorial								
Hospital	0	10	0.2	0.00	0.00 -	21.50	Not Different	
Greenville								
Memorial	_	1.00		• • •	o	4.00		
Hospital	5	129	2.4	2.07	0.67 -	4.82	Not Different	
Greer								
Memorial		0.7	1.5	0.65	0.02	2 (1	N . D'CC	
Hospital	1	87	1.5	0.65	0.02 -	3.64	Not Different	
Hillcrest								
Memorial		62	0.0	0.00	0.00	4.20	N-4 Diff	
Hospital	0	62	0.8	0.00	0.00 -	4.39	Not Different	
Laurens								
County								
Healthcare	5	57	0.9	5.87	1.91 -	13.71	Llighan	
System] 3	5/	0.9	5.87	1.91 -	13./1	Higher	

Hospital	Observed No. Of	No. of Procedures*	Statistically "Expected"	Comparison to Standard Population SIR = 1 ("Observed = Expected")			
	SSI		No. of SSI [‡]	Hospital SIR = Observed "Expected"	95% Confide Interval Lower	nce	Statistical Interpretation [†]
Mary				_	Dower	Сррсі	
Black							
Memorial							
Hospital	2	91	1.5	1.31	0.16 -	4.72	Not Different
Oconee							
Memorial							
Hospital	2	90	1.2	1.69	0.20 -	6.10	Not Different
Palmetto							
Baptist							
Medical							
Center -	_						
Easley	1	55	0.9	1.08	0.03 -	6.01	Not Different
Patewood							
Memorial		207	2.6	1 1 6	0.24	2.20	N. Dicc
Hospital	3	207	2.6	1.16	0.24 -	3.39	Not Different
Self							
Regional Healthcare	0	201	3.2	0.00	0.00 -	1.15	Not Different
	0	201	3.2	0.00	0.00 -	1.13	Not Different
Spartanbu							
rg Regional							
Medical							
Center	1	280	4.5	0.22	0.01 -	1.25	Not Different
St. Francis	1						
-							
Downtown	4	113	1.7	2.40	0.65 -	6.15	Not Different
St. Francis							
- Eastside	5	344	3.9	1.28	0.42 -	2.99	Not Different
Upstate							
Carolina							
Medical							
Center	0	7	0.1	0.00	0.00 -	41.13	Not Different
Wallace							
Thomson			_				
Hospital	0	9	0.2	0.00	0.00 -	23.83	Not Different

[†] SC Hospital SIR Statistical Interpretation

- Similar = Statistically similar (not different) than the standard population
 Lower = Statistically lower than the standard population
- Higher = Statistically higher than the standard population

- ‡ Please note that the "expected" number of infections does not mean that you expect to get an infection when you go into the hospital for surgery. The goal is for the hospital is to prevent all HAIs.
- * Too few procedures. Reporting on too few procedures is a risk to patient confidentiality. If five or fewer surgical procedures are performed, the report for the number of infections will be deferred until more procedures are performed.

Surgical Site Infection (SSI) – Standardized Infection Ratio (SIR) Table 3

Procedure: Hip Prosthesis (Replacement)

Midlands (Aiken, Allendale, Bamberg, Barnwell, Calhoun, Chester, Chesterfield, Darlington, Dillon, Fairfield, Florence, Kershaw, Lancaster, Lee, Lexington, Marion, Marlboro, Newberry, Orangeburg, Richland, Sumter, York)

Reporting Period: January 1, 2008 – November 30, 2008

Hospital	Observed No. Of	No. of Procedures*	Statistically "Expected"	Comparison to Standard Population SIR = 1 (Observed = "Expected")			
	SSI		No. of SSI [‡]	Hospital SIR = Observed "Expected"	95% Confidence Interval (CI)		SC Hospital SIR Interpretation [†]
					Lower	Upper	
Aiken							
Regional							
Medical Center	1	95	1.4	0.73	0.02 -	4.08	Not Different
Carolina	1	93	1.4	0.73	0.02 -	4.08	Not Different
Pines							
Regional							
Medical							
Center	1	25	0.4	2.45	0.06 -	13.64	Not Different
Carolinas							
Hospital							
System	0	101	1.6	0.00	0.00 -	2.31	Not Different
Chester							
Regional							
Medical	0	6	0.1	0.00	0.00	26.60	Not Different
Center Chesterfiel	0	6	0.1	0.00	0.00 -	36.60	Not Different
d General							
Hospital	*	3	*	*	* _	*	*
Clarendon							
Memorial							
Hospital	0	8	0.1	0.00	0.00 -	25.41	Not Different

Hospital	Observed No. Of	No. of Procedures*	Statistically "Expected"	Comparison to Standard Population SIR = 1 (Observed = "Expected")			
	SSI		No. of SSI [‡]	Hospital SIR = Observed "Expected"	95% Confide Interval Lower		Statistical Interpretation [†]
Kershaw				_	Dower	Сррсі	
County Medical							
Center	1	69	1.1	0.89	0.02 -	4.98	Not Different
Lake City							
Communit							
y Hospital	*	4	*	*	* -	*	*
Lexington							
Medical							
Center	1	178	4.0	0.25	0.01 -	1.40	Not Different
Marion							
County							
Medical	0	12	0.2	0.00	0.00	12.66	N-4 D:66
Center	0	13	0.3	0.00	0.00 -	13.66	Not Different
McLeod Medical							
Medicai Center -							
Pee Dee	1	186	4.0	0.25	0.01 -	1.39	Not Different
Newberry		100	4.0	0.23	0.01	1.37	Not Different
County							
Memorial							
Hospital	1	55	0.5	2.14	0.05 -	11.90	Not Different
Palmetto			9.0		0.00	11170	1,002111010110
Health							
Baptist	0	149	2.0	0.00	0.00 -	1.86	Not Different
Palmetto							
Health							
Richland	9	345	5.3	1.70	0.78 -	3.22	Not Different
Piedmont							
Medical						_	
Center	0	114	1.5	0.00	0.00 -	2.39	Not Different
Providence							
Hospital	^	50	0.0	0.00	0.00	4.22	NI (Dicc
Downtown	0	53	0.9	0.00	0.00 -	4.32	Not Different
Providence Hospital	_	20-		0.72	0.05	4.00	N . 5100
Northeast	2	339	3.8	0.53	0.06 -	1.90	Not Different

Hospital	Observed No. Of	No. of Procedures*	Statistically "Expected"	Comparison to Standard Population SIR = 1 (Observed = "Expected")				
	SSI		No. of SSI [‡]	Hospital	95%		Statistical	
				SIR =	Confide	nce	Interpretation [†]	
				Observed	Interval	(CI)		
				"Expected"	Lower	Upper		
Regional								
Medical								
Center Of								
Orangebur								
g/Calhoun								
Counties	0	60	0.9	0.00	0.00 -	4.03	Not Different	
Springs								
Memorial								
Hospital	2	35	0.5	3.69	0.45 -	13.34	Not Different	
Tuomey	2	51	0.8	2.35	0.28 -	8.50	Not Different	

- † SC Hospital SIR Statistical Interpretation
 - o Similar = Statistically similar (not different) than the standard population
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 - Higher = Statistically higher than the standard population
- [‡] Please note that the "expected" number of infections does not mean that you expect to get an infection when you go into the hospital for surgery. The goal is for the hospital is to prevent all HAIs.
- * Too few procedures. Reporting on too few procedures is a risk to patient confidentiality. If five or fewer surgical procedures are performed, the report for the number of infections will be deferred until more procedures are performed.

Surgical Site Infection (SSI) – Standardized Infection Ratio (SIR) Table 3

Procedure: Hip Prosthesis (Replacement)

Coastal (Beaufort, Berkeley, Charleston, Colleton, Dorchester, Georgetown, Hampton, Horry, Jasper, Williamsburg)

Reporting Period: January 1, 2008 – November 30, 2008

Hospital	Observed No. Of SSI	No. of Procedures*	Statistically "Expected" No. of SSI [‡]	Comparison to Standard Population SIR = 1 (Observed = "Expected")				
	551		No. 01 SS1	Hospital SIR = Observed "Expected"	95% Confidence Interval (CI)		Statistical Interpretation [†]	
					Lower	Upper		
Beaufort								
Memorial Hospital	2	120	1.7	1.19	0.14 -	4.30	Not Different	
Bon								
Secours - St. Francis								
Xavier								
Hospital	0	18	0.3	0.00	0.00 -	13.00	Not Different	
Coastal Carolina								
Medical								
Celleter	0	10	0.2	0.00	0.00 -	15.03	Not Different	
Colleton Medical								
Center	1	23	0.3	3.02	0.08 -	16.85	Not Different	
Conway Medical								
Center	0	42	0.6	0.00	0.00 -	5.70	Not Different	
East Cooper Regional								
Medical		2.5	0.4	0.00	0.00	0.00	N . D. CC	
Center	0	27	0.4	0.00	0.00 -	9.03	Not Different	
Georgetow n								
Memorial Hospital	0	44	0.7	0.00	0.00 -	5.07	Not Different	

Hospital	Observed No. Of	No. of Procedures*	Statistically "Expected"	Comparison to Standard Population SIR = 1 (Observed = "Expected")			
	SSI		No. of SSI [‡]	Hospital SIR = Observed	95% Confide Interval	nce (CI)	Statistical Interpretation [†]
				"Expected"	Lower	Upper	
Grand							
Strand							
Regional							
Medical	1	212	2.4	0.20	0.01	1.60	N-4 D:664
Center	1	213	3.4	0.29	0.01 -	1.62	Not Different
Hampton							
Regional Medical							
Center	*	1	*	*	* _	*	Not Different
Hilton		1		-	<u> </u>		Not Different
Head							
Regional							
Medical							
Center	0	54	0.7	0.00	0.00 -	5.13	Not Different
Loris							
Healthcare							
System	0	15	0.3	0.00	0.00 -	12.38	Not Different
MUSC							
Medical							
Center	5	234	3.5	1.41	0.46 -	3.29	Not Different
Roper							
Hospital							
Inc.	10	396	5.1	1.96	0.94 -	3.60	Not Different
Summervil							
le Medical	_				0.20	~ ^ -	77 . 75 122
Center	2	62	1.2	1.62	0.20 -	5.86	Not Different
Trident							
Medical		1 4 -	2.5	0.70	0.00	2.02	NI-4 D'CC
Center	2	146	2.6	0.78	0.09 -	2.82	Not Different
Waccama							
w Communit							
	0	02	1 7	0.00	0.00	2 10	Not Different
y Hospital	0	93	1.7	0.00	0.00 -	2.19	Not Different

- † SC Hospital SIR Statistical Interpretation
 - o Similar = Statistically similar (not different) than the standard population
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 - Higher = Statistically higher than the standard population
- ‡ Please note that the "expected" number of infections does not mean that you expect to get an infection when you go into the hospital for surgery. The goal is for the hospital is to prevent all HAIs.

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